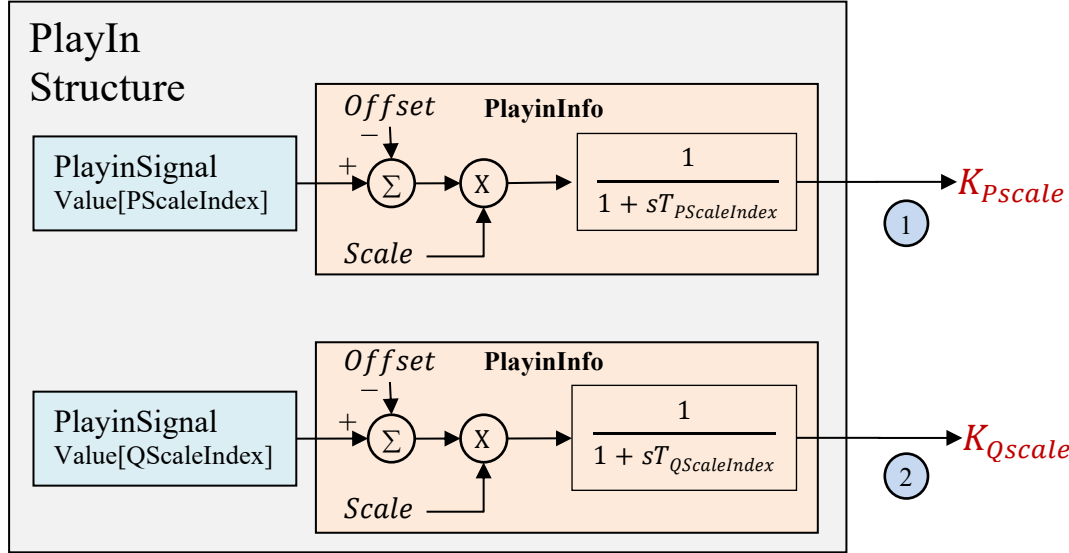


Load Characteristic PlayInLoad



$$P_{MW} = MW_{init}(K_{Pscale})\left(\frac{v}{v_{init}}\right)^{nP}$$
$$Q_{Mvar} = Mvar_{init}(K_{Qscale})\left(\frac{v}{v_{init}}\right)^{nQ}$$

- Blue entries are input parameters.
- Green entries are values from the initial condition
- Kpscale and Kqscale are outputs from a PlayIn structure.
- If a PlayIn structure is not specified, then assume $Kpscale = Kqscale = 1.000$

Parameters	Description	Default
PlayIn	Name of the PlayIn Structure used to provide KPscale and KQscale	
PScaleIndex	Index of the signal in the PlayIn structure which has the KPscale value	0
QScaleIndex	Index of the signal in the PlayIn structure which has the KQscale value	1
nP	Exponent of voltage used for the real power load. Any number can be used, but 0 represents constant power, 1 represents constant current, and 2 represents constant impedance.	1.0
nQ	Exponent of voltage used for the reactive power load. Any number can be used, but 0 represents constant power, 1 represents constant current, and 2 represents constant impedance.	2.0
PF	Power factor of load. ; PF=0 indicates to use the Q value from the load record directly ; PF>0 indicates positive Mvars ; PF<0 indicates negative Mvars	0.0